

EXPLANATION OF UNITS

Intrusive Rocks

Mesozoic

Md Thick mafic dike at north edge of map consisting of diabase and basalt with minor gabbro, probably from multiple injections. Mafic dikes too small to map are indicated by red symbols.

Carboniferous-Devonian

CDg Granite of the Lyman pluton. Light gray to white, medium to coarse-grained biotite-muscovite \pm garnet granite. Texturally heterogeneous at the outcrop scale.

CDp White granitic pegmatite. Commonly contains muscovite, garnet, and black tourmaline. Only a few of the larger bodies are mapped separately; small bodies are common in schist of the Rindgemere Formation.

Devonian

Dgn Unnamed muscovite-biotite-feldspar gneiss.

Stratified Rocks

Devonian-Silurian

DSru **Rindgemere Formation.** Undifferentiated. Variably interbedded, coarse-grained quartz-mica-garnet schist and medium-grained quartz-feldspar-biotite granofels. Generally weathers dark gray to pale brown, but is locally rusty.

DSrb Light gray, well bedded, fine-grained quartz-feldspar-biotite-garnet granofels to granular schist.

DSrw Well bedded quartzite and schist. Muscovite-biotite-sillimanite-garnet-quartz schist is subordinate to thicker bedded quartzite. This unit also contains minor amounts of calc-silicate granofels shaped like flattened footballs.

DSrr Rusty weathering, fissile, graphitic, sulfidic schist with minor thin quartzite beds.

DSrc Light purplish gray, biotite-quartz-feldspar granofels with interlayered calc-silicate granofels.

DSra Well-bedded gray quartzite and schist. Schist contains distinctive lumps of andalusite, or of sillimanite in pseudomorphs after andalusite.

DSrq Thick bedded quartzite and subordinate light gray quartz-rich mica schist. Thin pink layers of garnet-quartz cotecite occur sporadically.

Silurian

Shc **Hutchins Corner Formation.** Medium gray, fine-grained to medium-grained biotite-quartz-plagioclase \pm garnet granofels. Generally weathers to light gray, but locally somewhat rusty.

Devonian-Ordovician

DOus Unnamed massive muscovite-biotite-garnet schist.

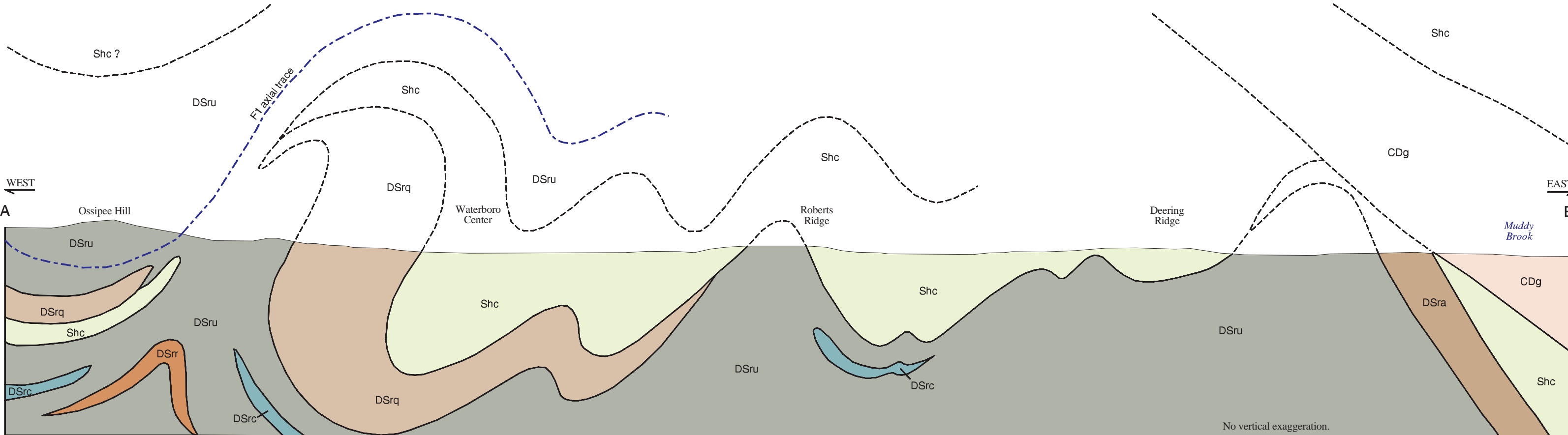
DOum Unnamed migmatitic schist.

EXPLANATION OF SYMBOLS

- ϕ / \times / \times Bedding, tops unknown. (Horizontal, Inclined, Vertical)
- \nearrow / \nwarrow Bedding with known topping direction. (Upright, Overturned)
- \nearrow Foliation (Inclined)
- \nearrow / \nwarrow Cleavage. (Inclined, Vertical)
- \nearrow / \nwarrow Joint. (Inclined, Vertical)
- \nearrow / \nwarrow Mafic dike. (Inclined, Vertical, Orientation unknown)
- \nearrow / \nwarrow Trachyte dike. (Inclined)
- \nearrow / \nwarrow Lineation. (Plunging)
- \bullet Outcrop without structural data.

INTERPRETIVE CROSS SECTION

Units are colored below ground; contacts are dashed where projected above ground.



Bedrock Geology of the
Waterboro Quadrangle, Maine

Bedrock geologic mapping by

Chris Guzofski

Geologic editing by

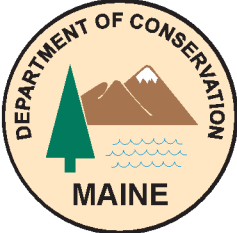
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Maine Geological Survey

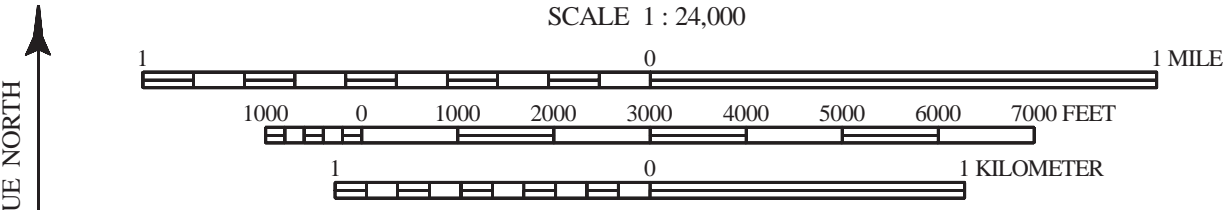
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Quadrangle Location



SOURCES OF INFORMATION

Bedrock mapping by Chris Guzofski completed during the 1995 field season. Additional field work by Henry N. Berry IV in the northeastern corner of the quadrangle during the 1996 field season.

Topographic base from U.S. Geological Survey Waterboro quadrangle, scale 1:24,000 using standard U.S. Geological Survey topographic map symbols.

The use of industry, firm, or local government names on this map is for location purposes only and does not impute responsibility for any present or potential effects on the natural resources.

EXPLANATION OF LINES

- Stratigraphic or intrusive contact between rock units.
 - Well located
 - Approximately located
 - Inferred
- Axial trace of F, recumbent anticline. Inferred from facing of graded beds.
- Axial trace of F, antiform. Inferred from structural data.
 - Upright
 - Overturned
- Axial trace of F, synform. Inferred from structural data.
 - Upright
 - Overturned
- A — B Line of cross section.

GEOLOGIC TIME SCALE

Geologic Age	Absolute Age*
Cenozoic Era	0-65
Mesozoic Era	Cretaceous Period 65-145
	Jurassic Period 145-200
	Triassic Period 200-253
Paleozoic Era	Permian Period 253-300
	Carboniferous Period 300-360
	Devonian Period 360-418
	Silurian Period 418-443
	Ordovician Period 443-489
	Cambrian Period 489-544
Precambrian time	Older than 544

* In millions of years before present. (Okulitch, A. V., 2002, Echelle des temps géologiques, 2002; Commission géologique du Canada, Dossier Public 3040 (Série nationale des sciences de la Terre, Atlas géologique) - RÉVISION.)